

# Financing

## Water Use Efficiency

The CALFED Bay-Delta Program, a cooperative effort of over 20 State and Federal agencies, funds promising water use efficiency projects throughout the State. DWR is the CALFED State agency designated to manage this grant and loan program through the Office of Water Use Efficiency, Financial Assistance Unit. In 2001, 53 water use efficiency projects were funded for \$12 million split equally between agricultural and urban projects. In 2002, 21 Urban Water Conservation Grants (\$9 million) and 8 Agricultural Water Conservation Feasibility Study Grants (\$0.8 million) were awarded. As well as water savings, these projects will provide water quality improvements and environmental benefits. For more information contact the Office of Water Use Efficiency at (916) 651-9674. Information is also available online at [www.water.ca.gov](http://www.water.ca.gov).



### Lost Hills Water District Reduces Lost Water

Two projects funded in 2001 consisted of concrete lining approximately 3-1/2 miles of canals. The purpose was to prevent seepage losses to a saline shallow groundwater table. Benefits of the concrete lining include reduction in drainage and maintenance costs.

**Anticipated Water Savings:** It is estimated that 170 and 110 acre feet per year of water can be saved from the two canal lining projects (approximately 3,230 acre feet and 2,090 acre feet over 20 years).

**CALFED Grant:** \$754,500 and \$572,100

**Local Cost Share:** \$140,400 and \$78,000

### Alameda County Water District Helps Schools Improve Water Management

Alameda County Water District is working to improve water management by helping school districts retrofit large landscape areas. Automated irrigation systems are being installed or upgraded in an effort to improve watering practices. Sub-meters are being installed to track landscape water use on mixed-use accounts. Central irrigation systems are being installed to control irrigation from one location within a school district.



**Anticipated Water Savings:** 10-20% (approximately 125 acre feet per year;  
2,240 acre feet over 20 years)

**CALFED Grant:** \$125,000

**Local Cost Share:** \$131,700

### Metropolitan Water District of Southern California Delivering High Efficiency Clothes Washer Rebates Saves Water and Energy

MWD, in collaboration with their member agencies, is providing 10,000 rebates to customers to purchase High Efficient Clothes Washers. This regional program provides member agencies with a base \$100 rebate that can be augmented by member agency funds.

**Anticipated Water Savings:** It is anticipated that the project will achieve water savings of .226 acre feet of water per machine over the 14 year life of the machines (2,260 acre feet for 14 years).

**CALFED Grant:** \$925,000

**Local Cost Share:** \$575,000





### Santa Clara Valley Water District Developing Data for Landscape Water Budgets

The District is performing area measurement and analysis of Santa Clara County using multi-spectral images. This information will identify different landscape areas for each parcel to prepare a database in conjunction with historical and current weather data using CIMIS. Accurate measurement of urban landscape and agricultural lands will significantly improve the District’s demand forecasts and dry-year planning efforts.

**Anticipated Water Savings:** The water budgets developed through this project are expected to reduce average landscape water use by 10% or 5,000 acre feet per year; 90,000 acre feet over 20 years.

**CALFED Grant:** \$406,000  
**Local Cost Share:** \$229,712

### Irvine Ranch Water District X-ray Film Processor Retrofit Recycles Water and Returns Savings

Irvine Ranch Water District, in collaboration with East Bay Municipal Utility District and Upper San Gabriel Valley Municipal Water District, installed Water Saver/Plus water recycling devices on X-ray film processors at seven hospitals. The film processors operate 24 hours a day all year. IRWD tracked water use on the film processors with ordinary water meters one month before installing the water recycling devices and for at least one month after the devices were installed. On one film processor, IRWD also recorded minute-by-minute water flows using a data logger. Verified by the 7-day recorded period, the Water Saver/Plus will save each hospital 8,283 gallons or 1.33 acre-feet of water a year.

**Anticipated Water Savings:** The results demonstrate a significant reduction in water use with an estimated 97 to 100 percent savings from the seven hospitals over the course of the study. The hospitals’ range of water use was 2,240 to 4,529 gallons of water a day before the Water Saver/Plus devices were installed. The Water Saver/Plus reduced water use to a range of 14 to 66 gallons of water a day.

**CALFED Grant:** \$13,698  
**Local Cost Share:** \$28,000

HOSPITAL	Usage/Day	Est. Usage/yr	Est. Saving/Yr	Savings as AF/yr
<b>Greater El Monte Community Hosp.</b>				
before	4,529	1,652,929		
after	51	18,771	1,634,157	5.02
<b>San Gabriel Valley Medical Center</b>				
before	3,687	1,345,807		
after	14	5,214	1,340,593	4.11
<b>Queen of the Valley Hospital</b>				
before	3,406	1,243,086		
after	56	20,336	1,222,750	3.75
<b>Irvine Regional Hospital</b>				
before	2,174	793,353		
after	37	16,557	779,796	2.39
<b>San Leandro Hospital</b>				
before	3,030	1,105,950		
after	58	21,145	1,084,805	3.33
<b>Children’s Hospital Oakland</b>				
before	2,240	817,730		
after	62	22,682	795,048	2.44
<b>Eden Township Hospital</b>				
before	2,921	1,066,321		
after	66	24,116	1,042,205	3.20

## Water Use Efficiency Grant Recipients, 2001

### SB 23 Agricultural Grant Recipients

Anderson-Cottonwood Irrigation District	Main Canal Modernization	\$100,000
CalPoly State University-ITRC	Irrigation Districts' Technical Assistance	\$300,000.00
Center for Irrigation Technology	Variability of Soil Salinity on Farms	\$175,010.00
Columbia Canal Company	On-farm Irrigation System Improvements	\$152,823.00
Glenn-Colusa Irrigation District	GCID System Optimization for Fisheries, etc.	\$100,000.00
Golden State Irrigation Serv., Inc.	Sub-surface Drip Irrigation of Asparagus	\$299,500.00
Kern-Tulare Water District	Water Use Efficiency Project	\$310,000.00
Lodi-Woodbridge Winegrape Comm.	NPS Pollution Reduction in Vineyards	\$217,440.00
Lost Hills Water District	Service Area 5 Distribution System Improvement	\$754,500.00
Lost Hills Water District	Service Area 3 Distribution System Improvement	\$572,100.00
Modesto Irrigation District	On-Farm Ditch and Cast-in-Place Replacement	\$274,000.00
Orland Unit Water Users' Association	Regional Water Use Efficiency Project	\$100,000.00
Oroville-Wyandotte Irrigation District	OWID Palermo Canal Lining Project	\$183,000.00
Pajaro Valley Water Management Agency	On Farm Mobile Lab	\$99,500.00
Placer County Water Agency	Real-time Canal Flow Monitoring and Canal	\$662,744.00
Reclamation District 108	Sub-basin Level Water Measurement Program	\$100,000.00
San Joaquin Valley Drainage Authority	SW Stanislaus Co. Regional Drainage Water Management	\$616,200.00
Stanislaus RCD, West	Irrigation Mgmt. & Dormant Spray Reduction	\$160,523.00
USDA/Agricultural Research Serv.	Salt-Tolerant Crops Evaluation	\$69,600.00
WaterTech	Irrigation Scheduling	\$200,000.00
West Hills Community College District	On-farm Integrated Irrigation & Drainage Management	\$100,000.00
Western Canal Water District WCWD	WCWD Water Use Efficiency Project	\$265,524.00
Westside RCD	Total Utilization of Drainage & Minimization of Evaporation	\$111,280.00
<b>TOTAL</b>		<b>\$5,923,744.00</b>

### SB 23 Urban Grant Recipients

Alameda Co. Water District	ACWD Schools & Water Cons.-Large Landscape	\$125,000.00
Aquacraft, Inc.	Demonstration of Water Cons. in Urban Supermarkets	\$126,000.00
Blue Planet Foundation	Expansion of the Learning to be WaterWise Program	\$38,000.00
Calif. Water Awareness Campaign	Public Information Program	\$250,000.00
CalPoly State University-ITRC	Efficient Landscape Water Program	\$244,000.00
Contra Costa Water District	A Straight Flush Commercial ULFT Direct Install	\$150,000.00
El Dorado Irrigation District	ULF Toilet Rebates for Low-Income Customer	\$60,000.00
Elect. & Gas Indust. Association (EGIA)	Regional High-Efficiency Washing Machine	\$1,750,875.00
Environmental Policy Center	California Water Conservation Support Network	\$115,000.00
ExPERT, Inc.	Community Water Education and Training (WET)	\$360,000.00
Irvine Ranch Water District, et al	Joint Agency X-Ray Processor Retrofit Model	\$13,698.00
Metropolitan Water District of S. CA	Commercial Rebate Program	\$34,000.00
Metropolitan Water District of S. CA	High-Efficiency Clothes Washer Rebates	\$925,000.00
Metropolitan Water District of S. CA	New Courses for Bilingual Landscape Education	\$100,000.00
Munic. Water District of Orange Co.	Water Softener Pilot Program	\$100,000.00
Pacific Institute	Quantifying CII Demand Side Mgt. Potential	\$72,500.00
Pittsburg, City of	The Save Our Delta Surveys (SODS)	\$50,000.00
Regents of University of CA	Water-Wise Demonstration Landscape	\$92,774.00
Rose Bowl Op. Company	Brookside Golf Course Water Management. Project	\$90,000.00
San Diego County Water Authority	Voucher Incentive-Clothes Washers-Residential	\$300,000.00
San Juan Water District-Water Forum	Sacramento Water Use Efficiency Training	\$100,000.00
Santa Barbara Co. Water Agency	Weather TRAK ET Controller	\$100,000.00
Santa Clara Valley Water District	Landscape & Ag Area Measurement & Water Budgets	\$406,000.00
Southern California Water Company	San Dimas ET Controller/Rain Shut-off Program	\$23,750.00
Southern California Water Company	Claremont ET Controller/Rain Shut-off Program	\$23,750.00
Southern California Water Company	LA, SW District ET Controller/Rain Shut-off Program	\$23,133.00
Southern California Water Company	Los Osos ET Controller/Rain Shut-off Program	\$23,750.00
Southern California Water Company	Arden-Cordova ET Controller/Rain Shut-off Program	\$11,875.00
Southern California Water Company	San Gabriel Valley Indoor/Outdoor Water Savings	\$5,470.00
Water Education Foundation	Water Conservation and Recycling Awareness	\$168,675.00
<b>TOTAL</b>		<b>\$5,883,250.00</b>

### Proposition 13 Feasibility Study Grant Recipients

Orland Water Users Association	Conveyance and Irrigation Efficiency Project	\$100,000
Anderson-Cottonwood Irrig. District	ACID Chum Creek Lateral Improvement Project	\$100,000
Alta Irrigation District	Sandridge and Kennedy Waste Way Pipeline	\$100,000
Coachella Valley Water District	Feasibility Study for CVWD Irrigation System	\$100,000
Western Canal Water District	Tailwater Recovery System	\$100,000
City of Rio Dell	Urban Water System Research and Evaluation Project	\$100,000
City of Trinidad	Urban Water System Research and Evaluation Project	\$100,000
Marina Coast Water District	Water Conservation Feasibility Evaluation and Implementation Plan	\$100,000
Fieldbrook Comm. Service District	Urban Water Conservation Feasibility Study-System Audit	\$100,000
Yucaipa Valley Water District	Water Conservation BMP Evaluation and Implementation Plan	\$ 89,324
East Bay Municipal Utilities District	Oakland Zoo Water Conservation and Recycling Feasibility Study	\$100,000
City of Santa Rosa	Feasibility Study for ETo-Timer Incentive Program	\$ 93,587
<b>TOTAL</b>		<b>\$1,182,911</b>

## Proposition 13 Water Use Efficiency Grant Recipients, 2002

### Agricultural Grant Recipient

Tulelake Irrigation District	Evaluation of the Feasibility and Cost Effectiveness of Canal Lining	\$99,720.00
Placer County Water Agency	Canal and Reservoir Efficiency Feasibility Study	\$100,000.00
Solano Irrigation District	Spill Reduction Feasibility Study	\$89,000.00
Westlands Water District	Water Measurement Enhancement Project	\$82,500.00
Panoche Water District	Herndon Avenue Lateral Feasibility Study	\$54,545.00
Banta Carbona Irrigation District	Banta-Carbona Irrigation District Modernization Feasibility Study	\$99,204.00
Consolidated Irrigation District	Turnout Metering	\$95,000.00
San Jacinto Basin Resource Conservation District	Feasibility of retrofitting to a remote-sensing soil moisture monitoring and irrigation scheduling system	\$98,033.00
<b>TOTAL</b>		<b>\$718,002.00</b>

### Urban Grant Recipients

Bear Valley Community Services District	Residential ULFT	\$44,000.00
Calaveras County Water District	West Point Urban Water Conservation Capital Outlay Project	\$1,925,000.00
East Bay Municipal Utility District	Pre-Rinse Spray Head and Dishwasher Installation Program	\$482,081.00
Goleta Water District	Large Meter Project	\$85,800.00
Inland Empire Utilities Agency	X-Ray film Processor Retrofit Program	\$230,000.00
Las Virgenes Municipal Water District	Multifamily ULFT and Residential HECW Rebate Program	\$145,000.00
Los Angeles Dept. of Water and Power	Enhanced Rebates and Incentives for Water Saving Devices	\$615,000.00
Marina Coast Water District	Water Conservation System Rehabilitation Program	\$959,029.00
Pasadena, City of	CII Zero Consumption Urinals	\$300,000.00
Placer County Water Agency	Auburn System Leak Repair	\$679,560.00
Pleasantimes Mutual Water Company, Inc.	Water Meter Project	\$49,000.00
Regional Water Authority, Sacramento	Large Landscape Irrigation System Incentive Program	\$150,000.00
Regional Water Authority, Sacramento	Leak Detection and Repair Program	\$386,750.00
Rio Dell, City of	Water Use Efficiency 2002	\$714,910.00
Rohnert Park, City of	Water Meter Project	\$1,276,548.00
San Diego County Water Authority	Multi-Load Clothes Washer Voucher Incentive Program	\$350,000.00
Santa Clara Valley Water District	Dedicated Landscape Meter Program	\$100,000.00
Santa Clara Valley Water District	Water Softener Pilot Project	\$60,000.00
Solano County Water Agency	Large Landscape ET Controller System Project	\$195,000.00
Upper San Gabriel Valley MWD	Olive Sports Park Model Water Efficient Landscape Project	\$56,278.00
Victor Valley Water District	Residential ULFT Project	\$70,000.00
<b>TOTAL</b>		<b>\$8,873,956.00</b>